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12/10/2003 02:27
PM

Please respond to
glharp

To: <glen_miller@fws.gov>
cc:
Subject: Waterboatmen (Corixidae) at Wapanocca

Glen-

Thank you for providing a special use permit so that Steve Chordas and I could collect corixids on 25 Nov. We found one new species of corixid plus 4 additional aquatic insect species. The report is attached.

It may be of interest to you to know that I also occasionally netted banded pigmy sunfish (*Elassoma zonatum*) and 1 golden topwater minnow (*Fundulus chrysotus*). They were returned to the water. Both of these species are lowland (Miss. Delta) fish species, but they really need water of pretty decent quality, unlike gar or bowfin (grindles). *Fundulus chrysotus* is known historically from as far north as the Missouri bootheel, but I don't believe it has been reported from NE Arkansas since prior to 1940.

If you would like further information, please contact me.

Sincerely,

George Harp

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Water Boatmen of Wapanocca.

Water Boatmen (Corixidae: Hemiptera) Collected at Wapanocca NWR
Report prepared 10 December 2003

Under the authority provided by Special Use Permit WPN-04-01, the following Corixidae were collected at Wapanocca National Wildlife Refuge on 25 November 2003. I was assisted by Steve Chordas III.

<i>Hesperocorixa lucida</i>	4?, 2?
<i>Hesperocorixa nitida</i>	2?, 2?
<i>Trichocorixa calva</i>	24?, 12?
<i>Trichocorixa kanza</i>	9?, 4?
<i>Trichocorixa sexcincta</i> *	2?

*The presence of the four species reported by Harp and Harp (1980) is reaffirmed. *Trichocorixa sexcincta* is a first report for Wapanocca NWR, however. Because of their small size, the species of *Trichocorixa* are particularly difficult to identify by sight, therefore all specimens of this genus were retained for examination under magnification. As the above numbers indicate, if all specimens had not been retained, the new species probably would have been missed.

A few additional aquatic insects were sight identified in the field, then released, as follows:

Hemiptera

<i>Belostoma flumineum</i> *	Toe nipper (electric light bug)
<i>Belostoma lutarium</i>	" "
<i>Microvelia pulchella</i>	Small water strider
<i>Notonecta indica</i>	Back swimmer
<i>Notonecta raleighi</i>	"
<i>Ranatra australis</i>	Water scorpion
<i>Ranatra buenoi</i>	"

Coleoptera

<i>Acilius fraternus</i> *	Predaceous diving beetle
<i>Coptotomus venustus</i>	" "
<i>Dytiscus</i> sp.*	" "
<i>Thermonectus basillaris</i>	" "
<i>Thermonectus ornatocollis</i> *	" "

*These species were not reported by Harp and Harp (1980) and therefore are additions to the aquatic macroinvertebrate fauna list for Wapanocca NWR.

Reference:

Harp, G.L. and P.A. Harp. 1980. Aquatic macroinvertebrates of Wapanocca National Wildlife Refuge. Proc. Ark. Acad. Sci. 34:115-117.

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